

PATENT
P56912

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SANG-KUG YI *et al.*

Serial No.: 10/674,357

Examiner: MARC, MCDIEUNEL

Filed: 1 October 2003

Art Unit: 3661

For: HOME ROBOT USING SUPERCOMPUTER, AND HOME NETWORK SYSTEM
HAVING THE SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

FOREIGN PATENT REFERENCE(S):

- Japanese Patent Publication No. 2001-209644 to Yokono *et al.*, entitled *INFORMATION PROCESSOR, INFORMATION PROCESSING METHOD AND RECORDING MEDIUM*, published on 3 August 2001;
- International Patent Publication No. WO 99/67067 to Kawakita *et al.*, entitled *ROBOT AND INFORMATION PROCESSING SYSTEM*, published on 29 December 1999;

Folio: P56912
Date: 5/8/06
I.D.: REB/ny

- Japanese Patent Publication No. 2002-092761 to Murakami *et al.*, entitled *MOVEMENT MONITORING SYSTEM*, published on 29 March 2002;
- Japanese Patent Publication No. 2002-199470 to Sakai, entitled *HOME AUTOMATION THROUGH INTERACTIVE VIRTUAL ROBOT SYSTEM*, published on 12 July 2002;
- Japanese Patent Publication No. 2001-142862 to Yoshii, entitled *INFORMATION COMMUNICATION ROBOT DEVICE, INFORMATION COMMUNICATION METHOD AND INFORMATION COMMUNICATION ROBOT SYSTEM*, published on 25 May 2001; and
- Japanese Patent Publication No. 2001-300876 to Akiyama *et al.*, entitled *SERVICE ROBOT AND SERVICE SYSTEM USING IT*, published on 30 October 2001.

OTHER DOCUMENT(S):

- *Office action* from the Japanese Patent Office issued in Applicant's corresponding Japanese Patent Application No. 2003-387795 dated 21 April 2006.

DISCUSSION

As written in the Office action issued by the Japanese Patent Office on the 21 April 2006 in applicant's corresponding Japanese Application corresponding to applicant's above-captioned U.S. Patent Application, Yokono *et al.* 'JP644 discloses that the speech of a user is voice-recognized in a voice recognition part 1, language-processed in a language processing part 2 and then supplied to an intention understanding part 3. In the intention understanding part 3, the opposite party to transmit the message and contents desired to be transmitted are recognized. In a sentence generation part 6, based on the recognized result, the message of the contents desired to be transmitted by the expression corresponding to intimacy with the opposite party to transmit the message is generated.

Kawakita *et al.*'WO067 discloses that a useful robot device is provided which includes communication means for its operation based on information transferred to and from an external device. A useful information processing system can be realized by designing the robot device so that it may recognize user's states based on sensors provided around the user and respond to the results of recognition.

Murakami *et al.*'JP761 discloses that this movement monitoring system is provided with a robot cleaner 8 equipped with a visual sensor 9 and a cleaner mechanism and autonomously moving, and a home server 6 for controlling the robot cleaner. The home server is provided with a setting means for setting an information on plural monitor points, a storage means for previously storing an image of the respective monitor points at normal time set by the setting means, and a determination means for determining the normality and the abnormality of the obtained image by comparing the image obtained at the respective monitor points by the visual sensor of the robot cleaner and the image of the respective monitor points previously stored in the storage means. The robot cleaner autonomously moves to the respective monitor points set and obtains the image of the respective monitor points by the visual sensor.

Sakai'JP470 discloses that sound collection microphones, loud speaker, human body sensing and remote units are installed to each living space. Users' voices are recognized as voice information, and confirmation of instruction commands and execution start declaration or the like are replied directly in voice or on a monitor in drawings or characters or replied by the Internet or by mail. The interactive virtual robot and its system can attain temperature humidity management of central heating, video recording reservation, management of a fully automatic washing machine, lighting/ extinguishment of lighting fixtures, locking of doors, and supervision, alarming and report after sensing of fire or gas leakage by various sensors and also can attain management of for nursing devices.

Yoshii'JP862 discloses that the robot is provided with a communication data generating/ analyzing part 13 for transmitting or receiving basic information with another robot, a DNA data

generating/ analyzing part 11 for analyzing the transmitted or received basic information and an attachable and detachable DNA plate- shaped memory 2 for storing a prescribed basic information, which is selected out of the mutual basic information with the other robot, as genetic information and further, the genetic information in the DNA plate-shaped memory 2 is used as basic information in a basic plate-shaped memory 1 of the other robot.

Akiyama *et al.*'JP876 discloses that this service robot 1 is provided with a traveling part for movement a condition detecting means for detecting a surrounding condition, a position detecting means for detecting the current position, a control means for driving the traveling part on the basis of signals from the condition detecting means and the position detecting means so that it may reach a target position, and a menu box 10 for providing articles after reaching the target position in a state where the articles such as glasses 16 and a service menu 15 are held. A head part 2 is provided with a display screen 5 for displaying an image on the front surface.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

Pursuant to 37 CFR § 1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three(3) months prior to the filing of the statement.

No fee is incurred by this Statement.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. E. Bushnell', written over a horizontal line.

Robert E. Bushnell

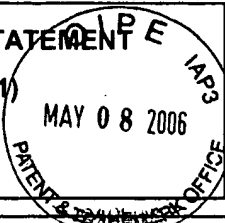
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INFORMATION DISCLOSURE STATEMENT

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APPLICANT

SANG-KUG YI *et al.*

FILING DATE 1 October 2003

GROUP 3661

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

TRANSLATION

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	JP 2001-209644	08/03/01	JAPAN			Abstract	
	WO 99/67067	12/29/99	WIPO			Abstract	
	JP 2002-092761	03/29/02	JAPAN			Abstract	
	JP 2002-199470	07/12/02	JAPAN				
	JP 2001-142862	05/25/01	JAPAN			Abstract	
	JP 2001-300876	10/30/01	JAPAN			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Office action from the Japanese Patent Office issued in Applicant's corresponding Japanese Patent Application No. 2003-387795 dated 21 April 2006

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.